

Abstract

[0105] A hardened voyage data recorder includes two
subsystems: a removable non-volatile memory and a base
5 containing electronics and firmware for communicating
with data sensing systems and for accessing the memory.
According to the invention, the memory is protected in
a "boiler" and the electronics includes an ETHERNET
interface for connecting to shipboard data acquisition
10 devices. The firmware is preferably configured via web
pages. A communications protocol for communicating
with the recorder is also disclosed.